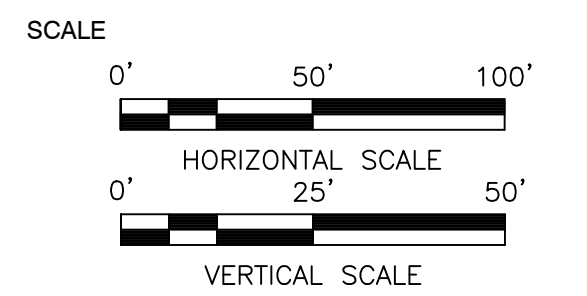


TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
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DOM 33
PLAN & PROFILE

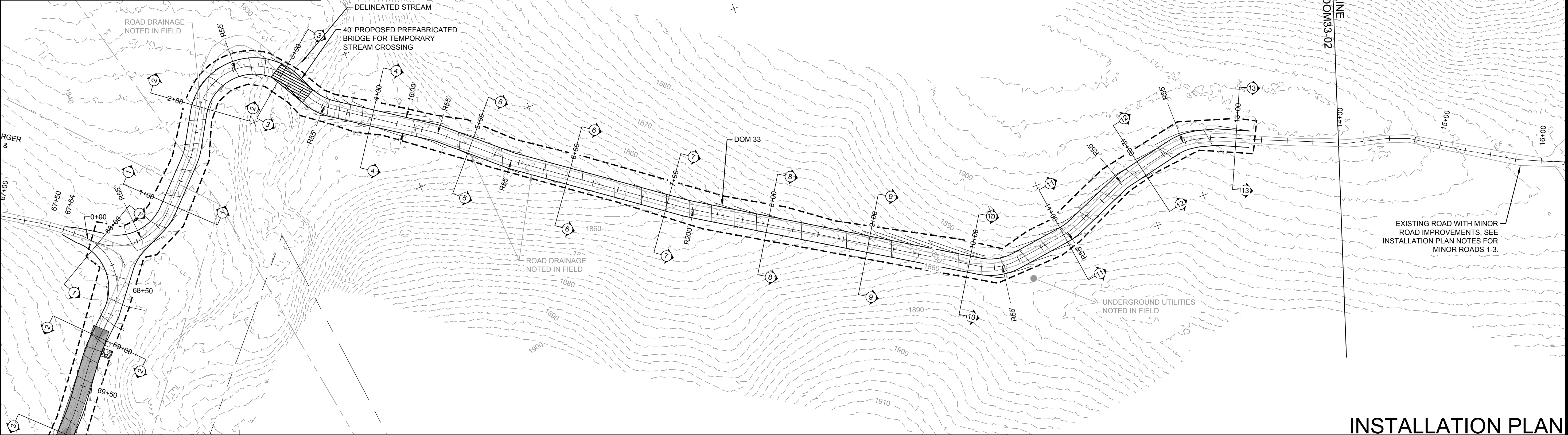
PROJECT NO. 50106442

DOM33-01

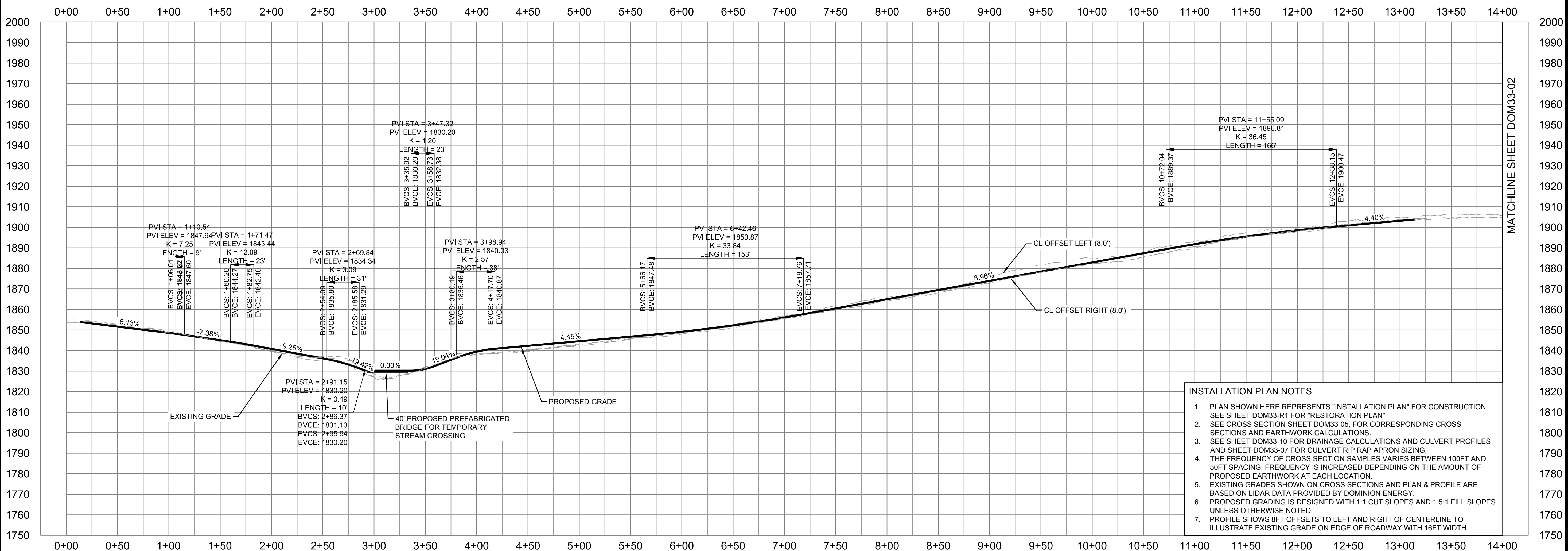
SHEET NO.

INSTALLATION PLAN NOTES FOR MINOR ROADS

- MINOR ROADS SHALL BE GRADED TO DRAIN EITHER BY DOZER OR ROAD GRADER TO MAINTAIN EXISTING DRAINAGE PATTERNS (E.G. OUTSLOPED OR INSLOPED TO ROADSIDE DITCH.)
- EXISTING ROADSIDE DITCH LINES SHALL BE CLEANED AND GRADED TO DRAIN TO EXISTING STRUCTURES (CULVERTS, DIPS, ETC.) EXISTING LEAD-OFF DITCHES SHALL BE CLEANED AND GRADED TO DRAIN TO ENSURE TRANSPORT OF WATER OFF OF THE ROAD SURFACE TO OVERLAND FLOW IN THE ADJACENT AREA.
- MINOR ROADS SHALL RECEIVE A MINIMUM OF 2" OF VDOT #21A COMPACTED AGGREGATE FOR INITIAL CONSTRUCTION AND SHALL RECEIVE A 2" CAP DURING THE RESTORATION PROCESS.
- EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
- PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.



INSTALLATION PLAN



INSTALLATION PLAN NOTES

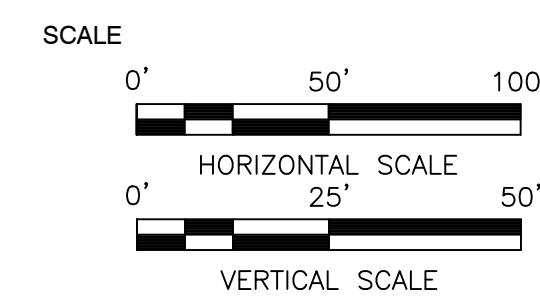
- PLAN SHOWN HERE REPRESENTS "INSTALLATION PLAN" FOR CONSTRUCTION. SEE SHEET DOM33-R1 FOR "RESTORATION PLAN"
- SEE CROSS SECTION SHEET DOM33-05 FOR CORRESPONDING CROSS SECTIONS AND EARTHWORK CALCULATIONS.
- SEE SHEET DOM33-10 FOR DRAINAGE CALCULATIONS AND CULVERT PROFILES AND SHEET DOM33-07 FOR CULVERT RIP RAP APRON SIZING.
- THE FREQUENCY OF CROSS SECTION SAMPLES VARIES BETWEEN 100FT AND 50FT SPACING; FREQUENCY IS INCREASED DEPENDING ON THE AMOUNT OF PROPOSED EARTHWORK AT EACH LOCATION.
- EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
- PROPOSED GRADING IS DESIGNED WITH 1:1 CUT SLOPES AND 1.5:1 FILL SLOPES UNLESS OTHERWISE NOTED.
- PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.



TRANSMISSION LINE REBUILD
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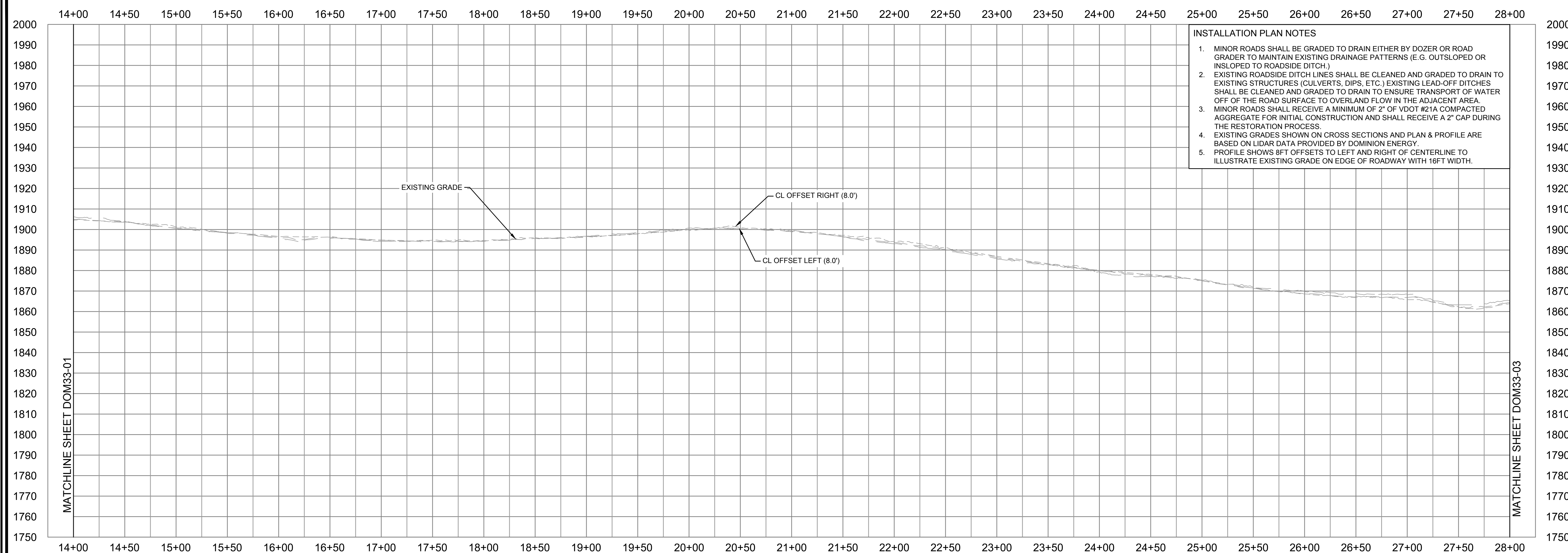
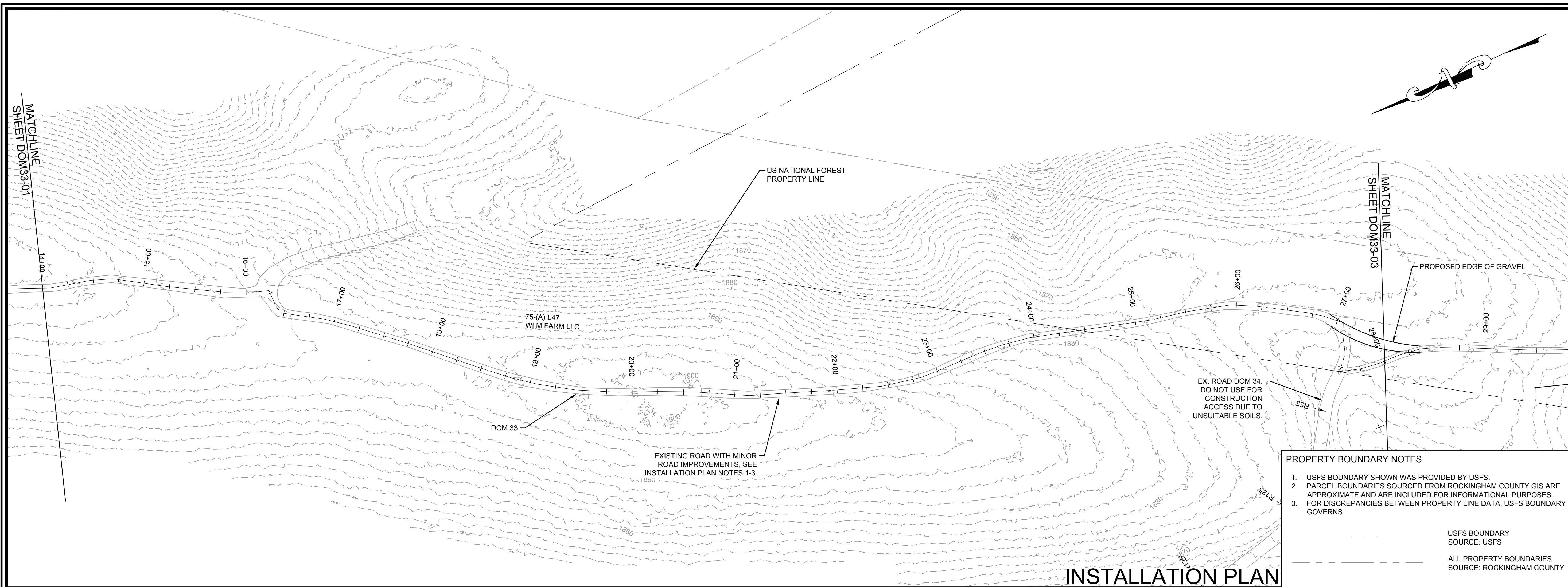
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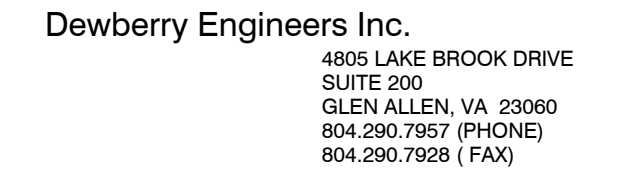
DOM 33
PLAN & PROFILE

PROJECT NO. 50106442

DOM33-02

SHEET NO.





TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
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Figure 1 shows two scales. The top scale is labeled 'HORIZONTAL SCALE' and has markings at 0', 25', 50', and 100'. The bottom scale is labeled 'VERTICAL SCALE' and has markings at 0', 25', and 50'. Both scales are represented by a black and white checkerboard pattern.

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DOM 33
PLAN & PROFILE

PROJECT NO. 50106442

DOM33-03

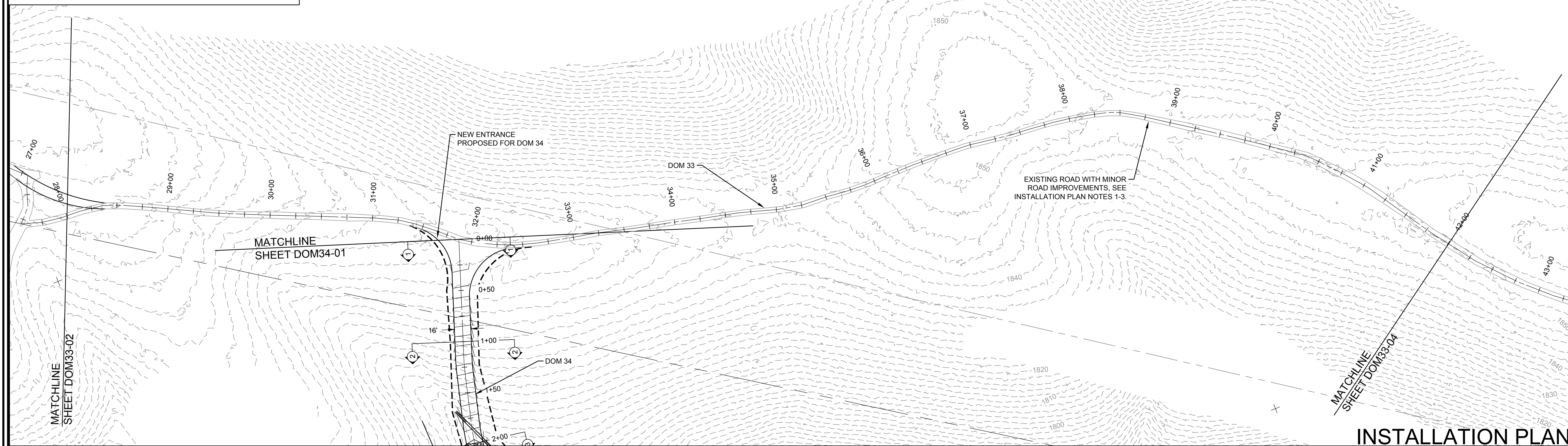
SHEET NO.

PROPERTY BOUNDARY NOTES

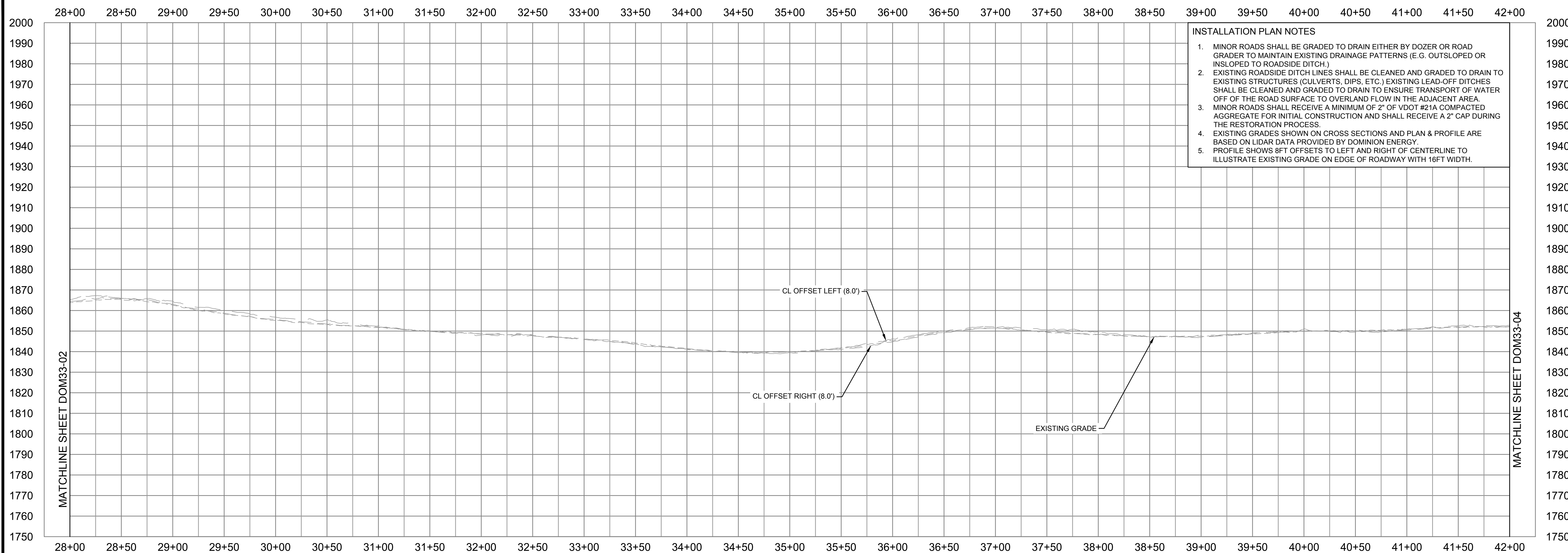
1. USFS BOUNDARY SHOWN WAS PROVIDED BY USFS.
2. PARCEL BOUNDARIES SOURCED FROM ROCKINGHAM COUNTY GIS ARE APPROXIMATE AND ARE INCLUDED FOR INFORMATIONAL PURPOSES.
3. FOR DISCREPANCIES BETWEEN PROPERTY LINE DATA, USFS BOUNDARY GOVERNS.

USFS BOUNDARY
SOURCE: USFS

ALL PROPERTY BOUNDARIES
SOURCE: ROCKINGHAM COUNTY

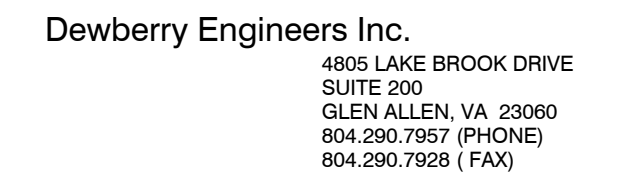


INSTALLATION PLAN



INSTALLATION PLAN NOTES

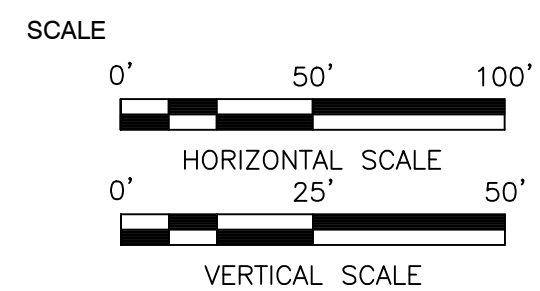
1. MINOR ROADS SHALL BE GRADED TO DRAIN EITHER BY DOZER OR ROAD GRADER TO MAINTAIN EXISTING DRAINAGE PATTERNS (E.G. OUTSLOPED OR INSLOPED TO ROADSIDE DITCH).
2. EXISTING ROADSIDE DITCH LINES SHALL BE CLEANED AND GRADED TO DRAIN TO EXISTING STRUCTURES (CULVERTS, DIPS, ETC.) EXISTING LEAD-OFF DITCHES SHALL BE CLEARED AND GRADED TO DRAIN TO ENSURE TRANSPORT OF WATER OFF OF THE ROAD SURFACE TO OVERLAND FLOW IN THE ADJACENT AREA.
3. MINOR ROADS SHALL RECEIVE A MINIMUM OF 2" OF VDOT #21A COMPACTED AGGREGATE FOR INITIAL CONSTRUCTION AND SHALL RECEIVE A 2" CAP DURING THE RESTORATION PROCESS.
4. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY MINNION ENERGY.
5. PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.



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DOM 33
PLAN & PROFILE

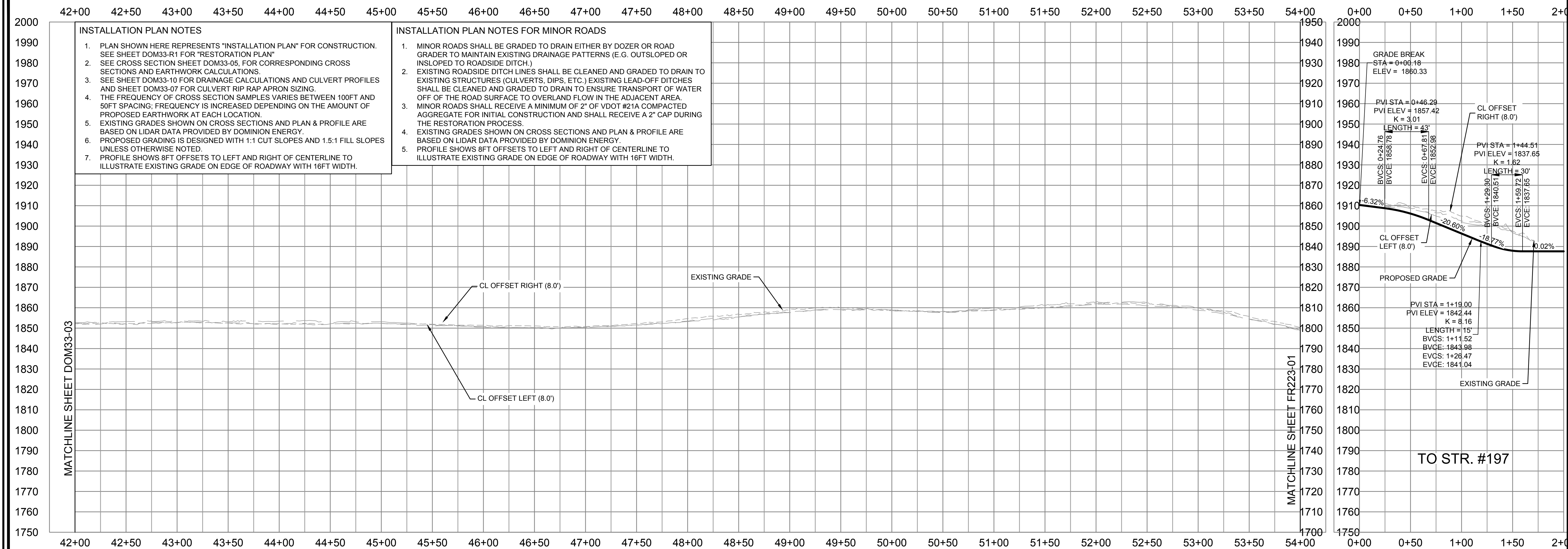
PROJECT NO. 50106442

DOM33-04

SHEET NO.



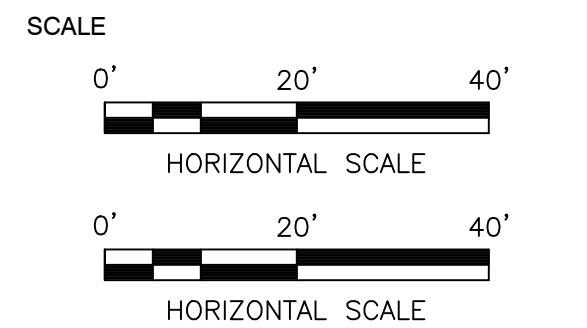
INSTALLATION PLAN



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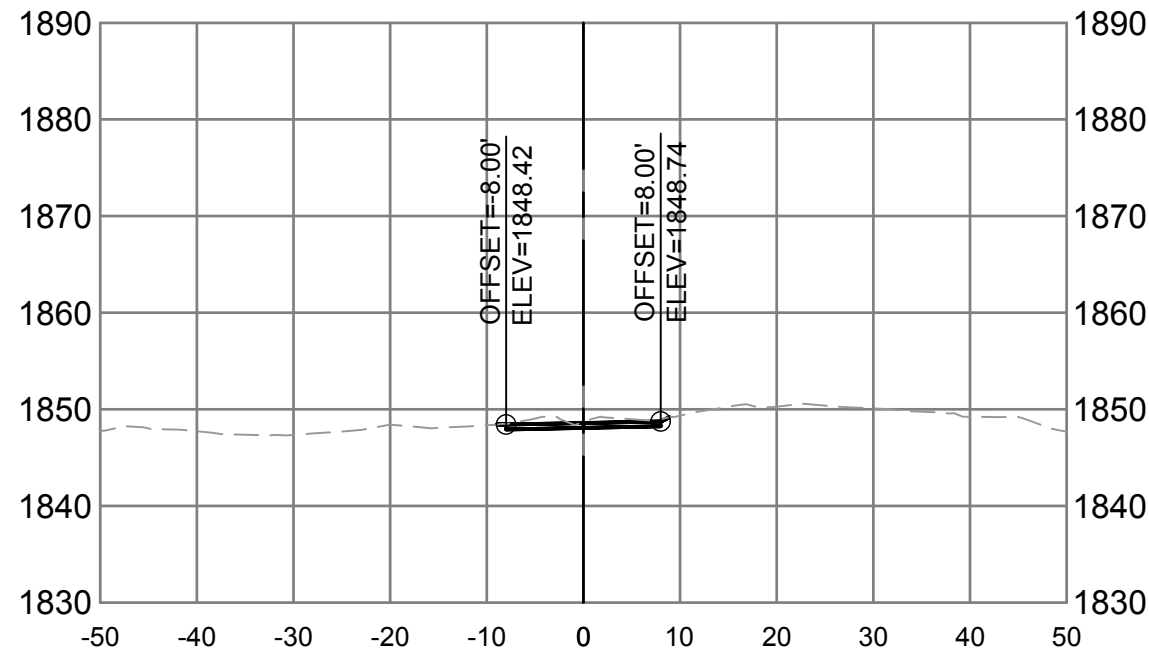
DOM 33
CROSS SECTIONS

PROJECT NO. 50106442

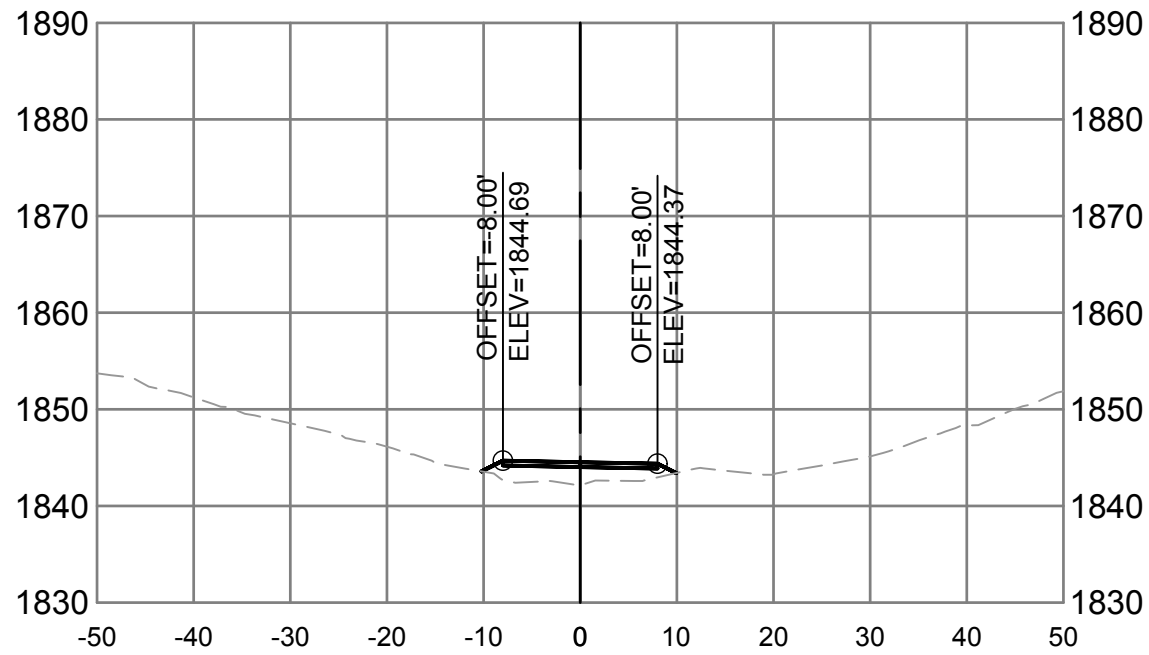
DOM33-05

SHEET NO.

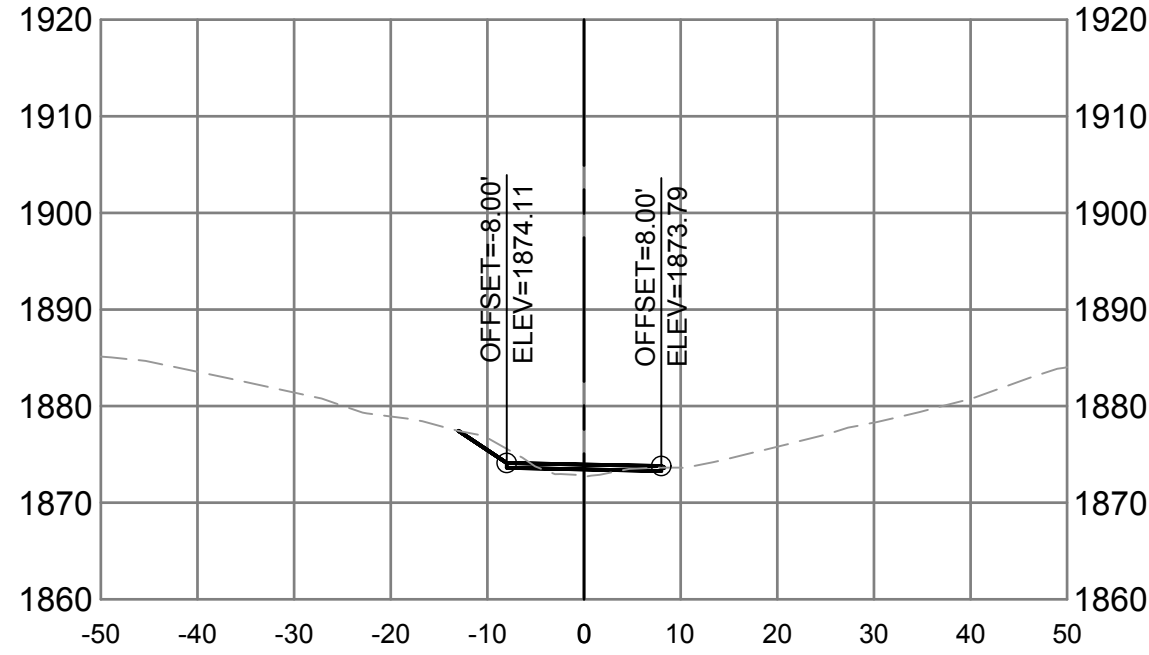
ROAD CE 50 #1, STATION 1+00.0



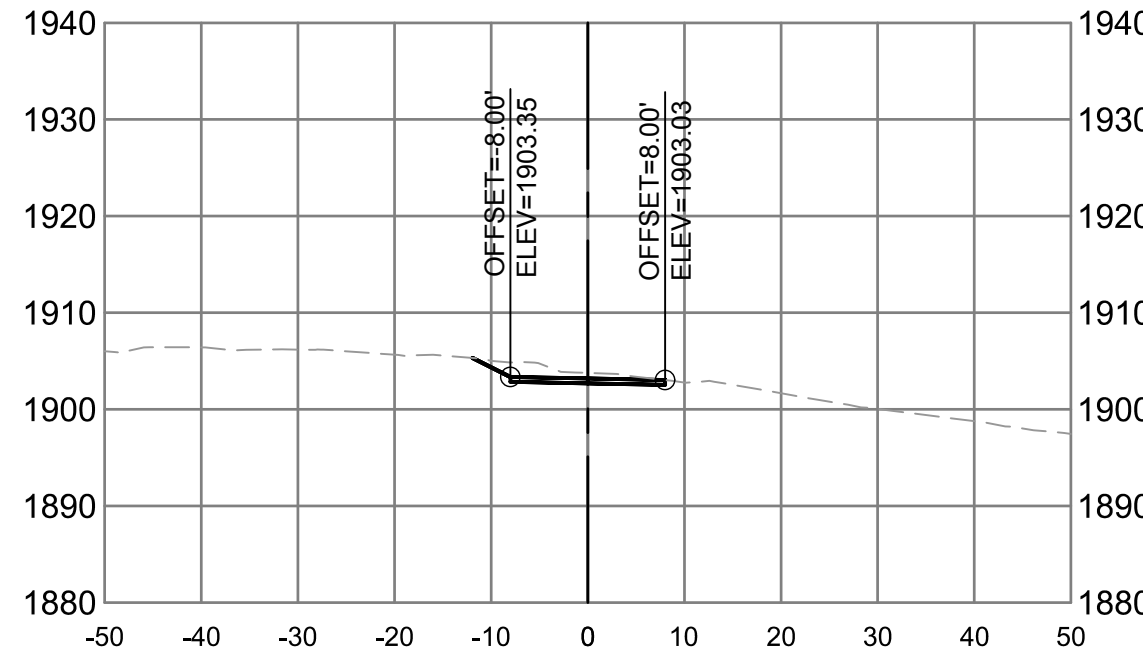
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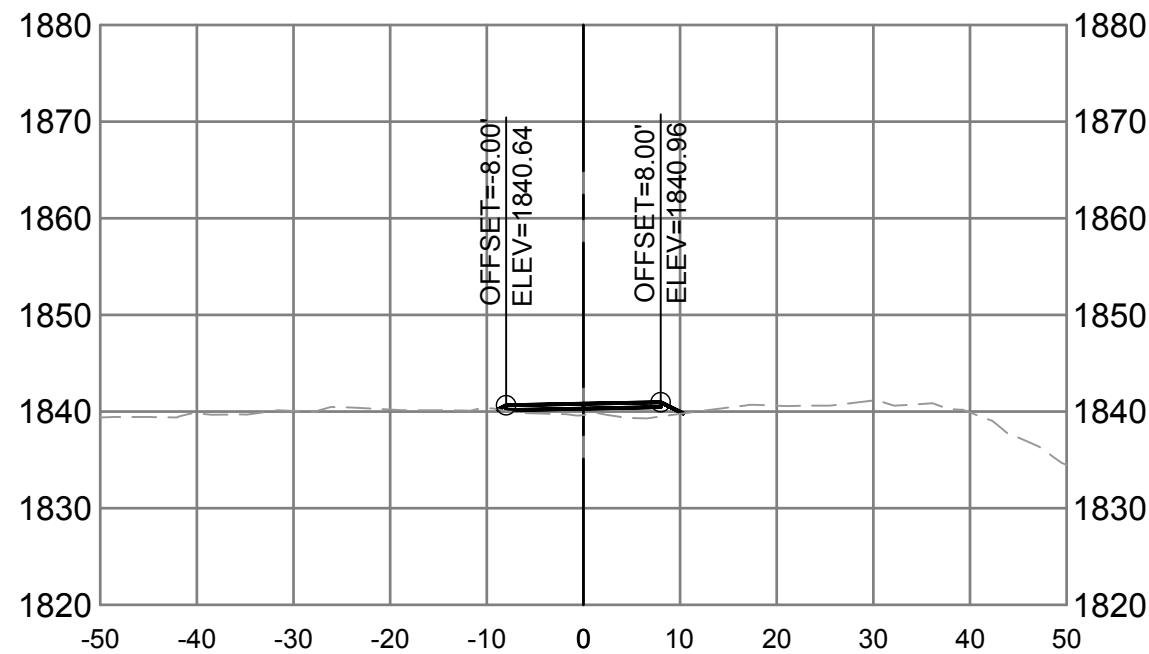
ROAD CE 50 #9, STATION 9+00.0



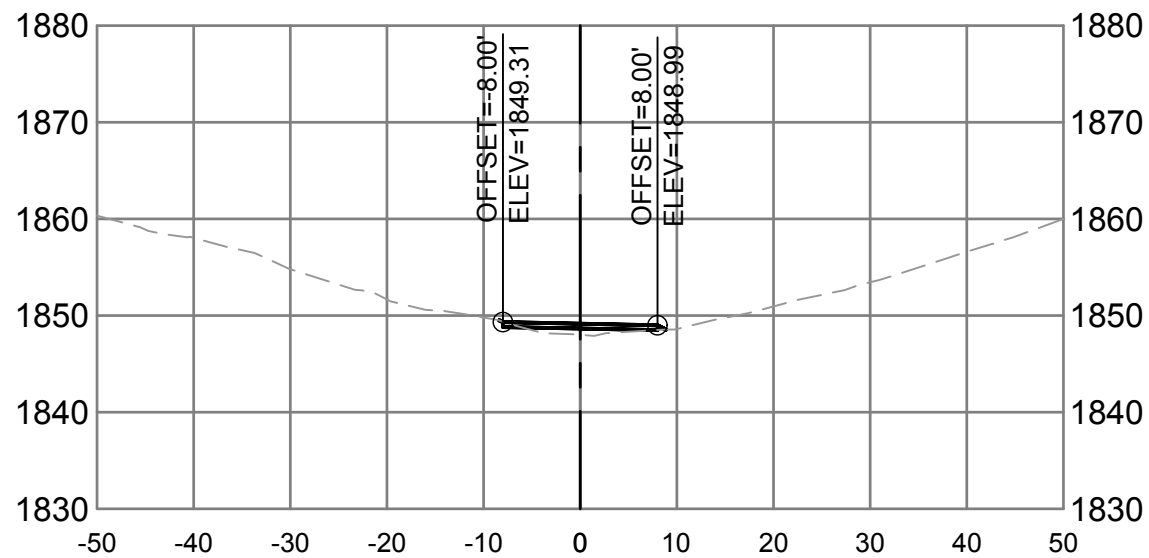
ROAD CE 50 #13, STATION 13+00.0



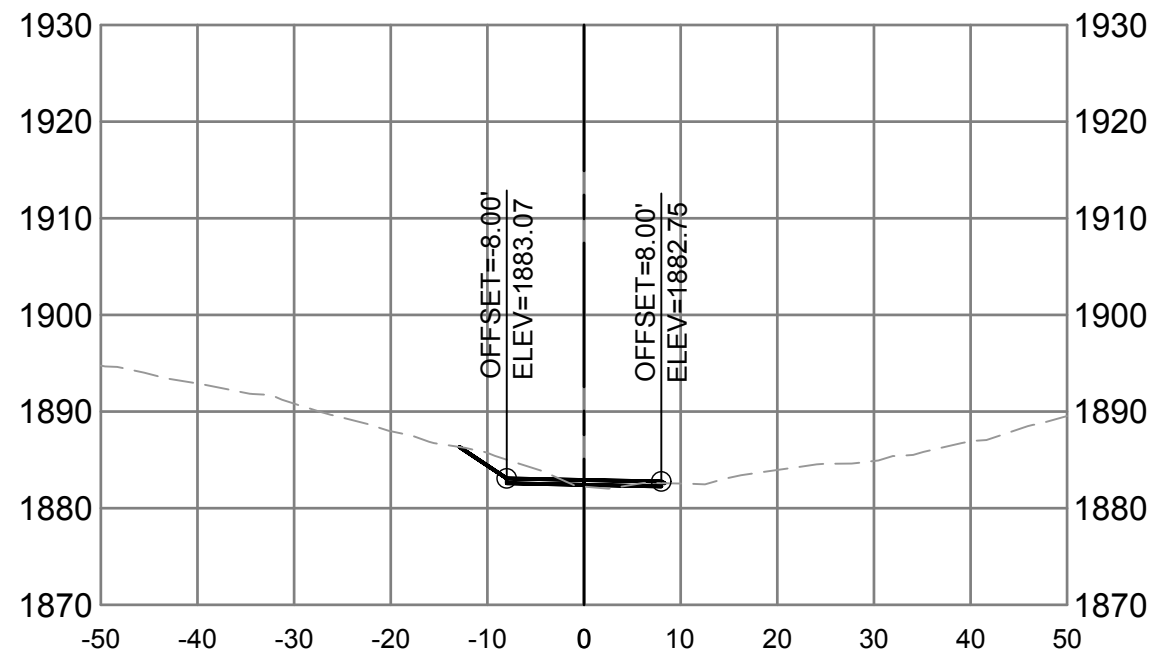
ROAD CE 50 #2, STATION 2+00.0



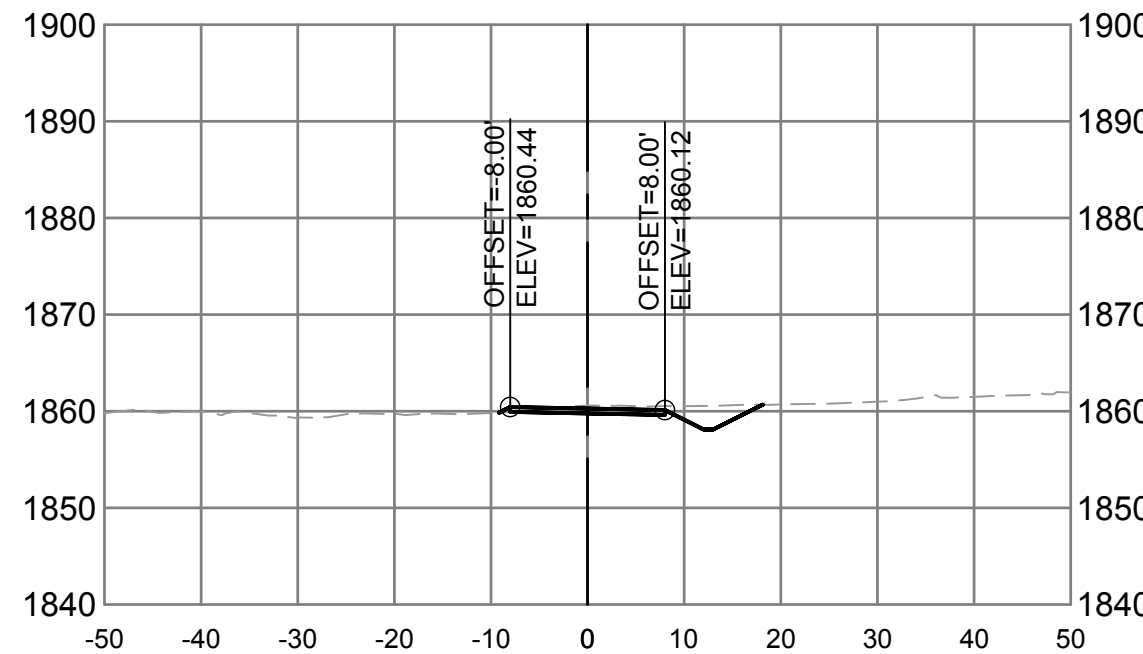
ROAD CE 50 #6, STATION 6+00.0



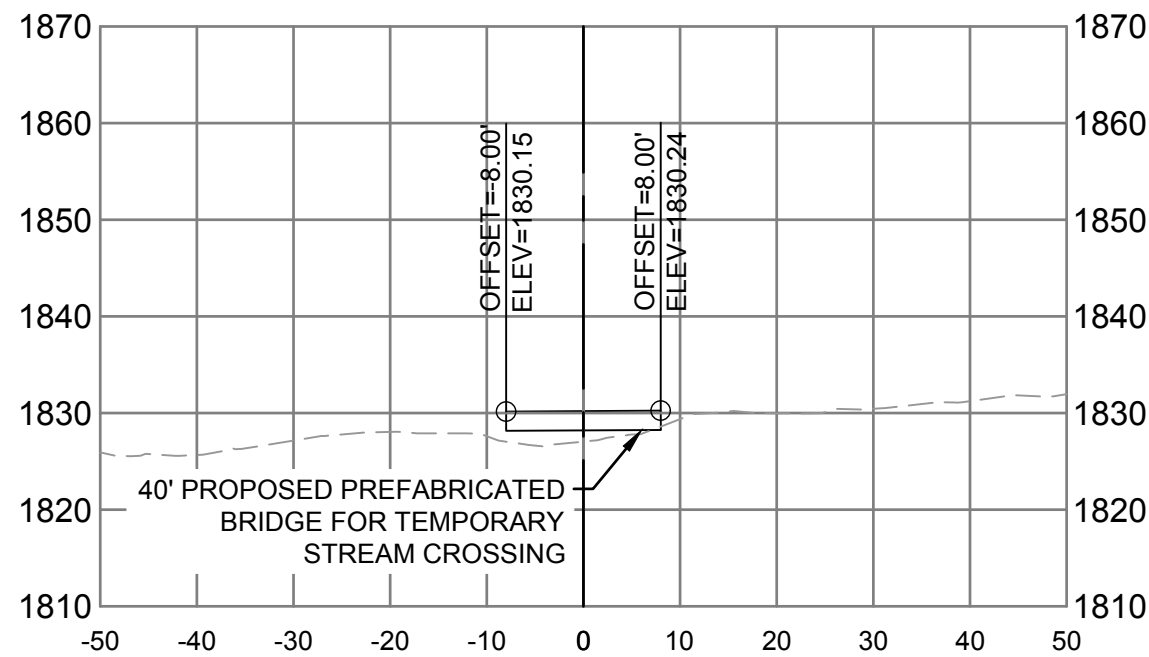
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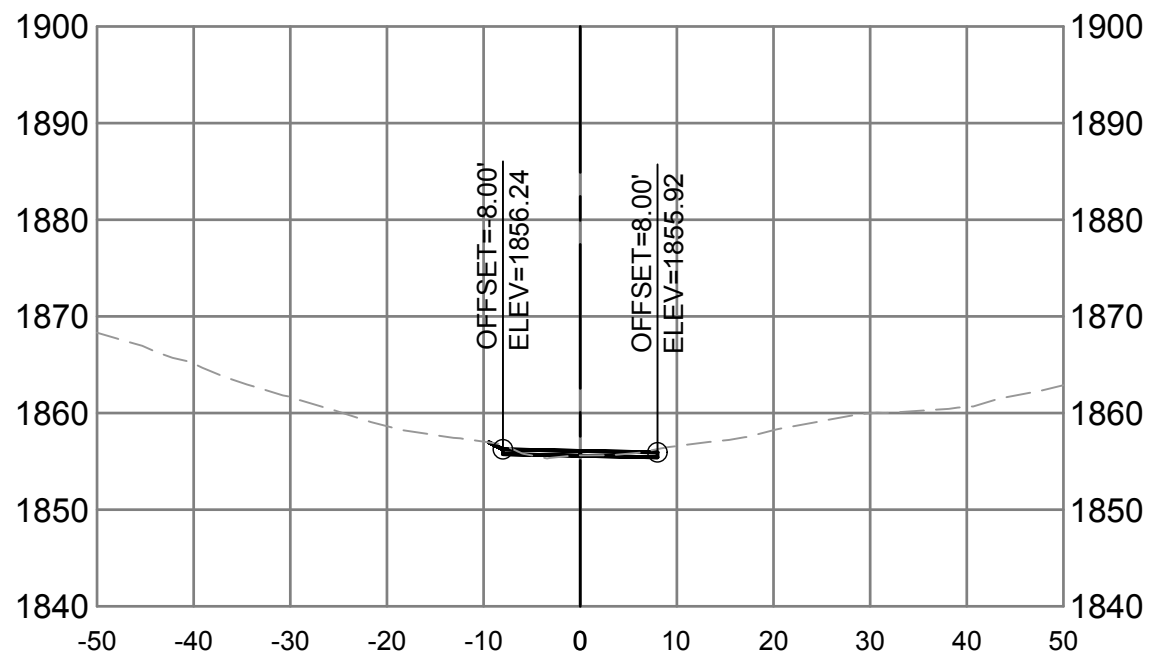
ROAD CE 50 DOM 33 #1, STATION 0+01.0



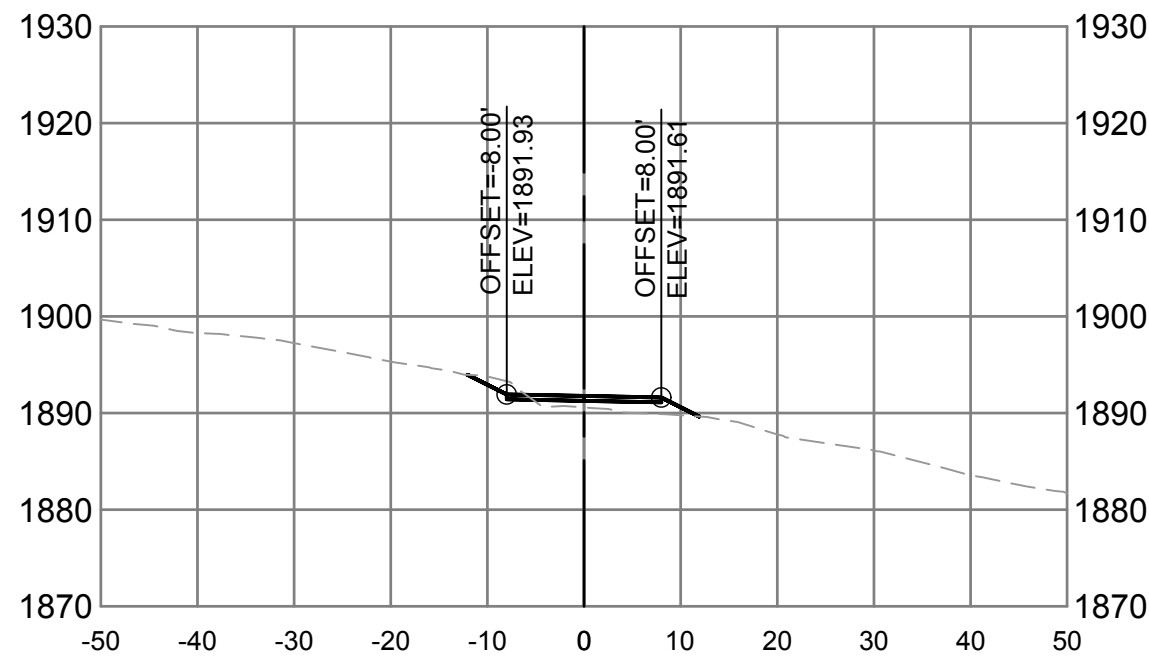
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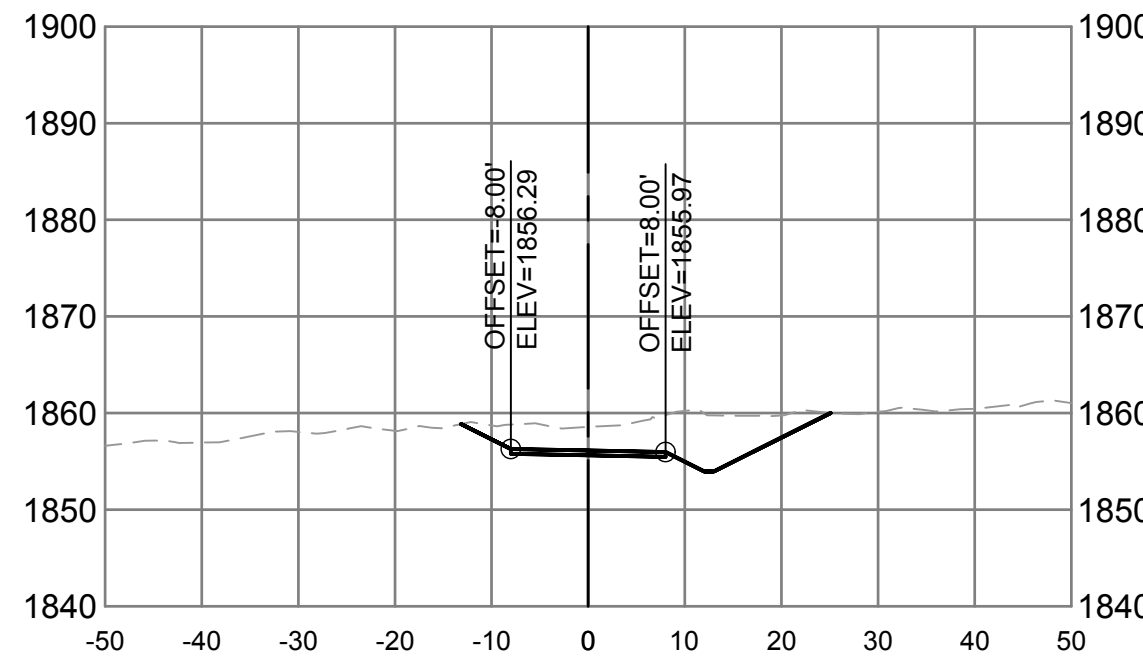
ROAD CE 50 #7, STATION 7+00.0



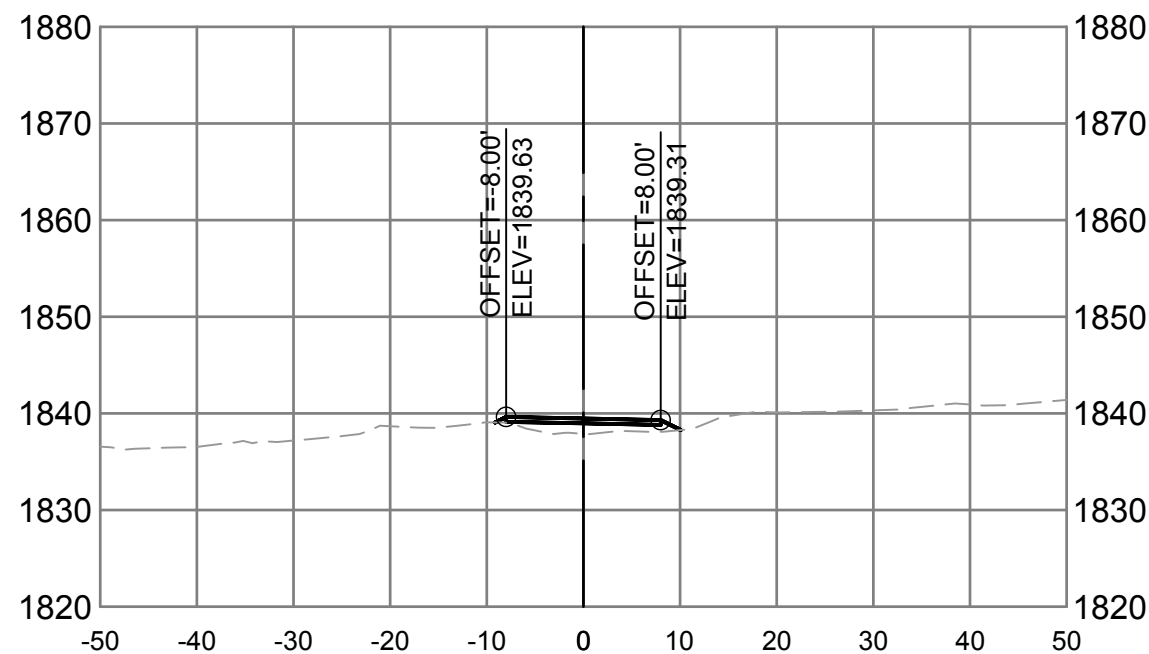
ROAD CE 50 #11, STATION 11+00.0



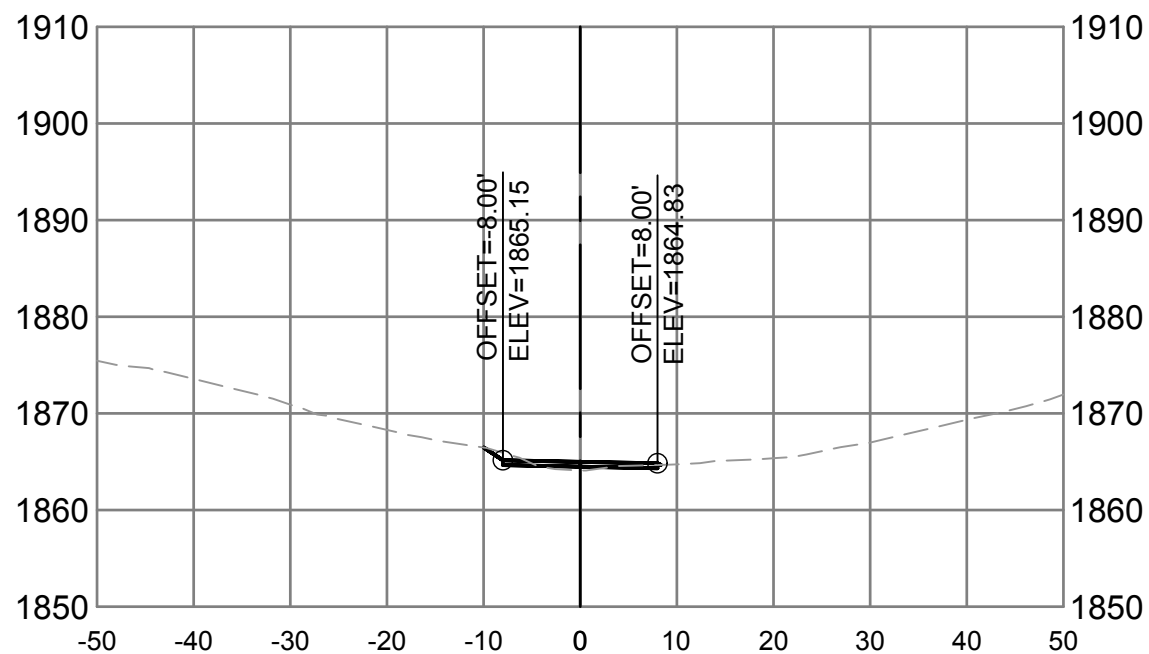
ROAD CE 50 DOM 33 #2, STATION 0+50.0



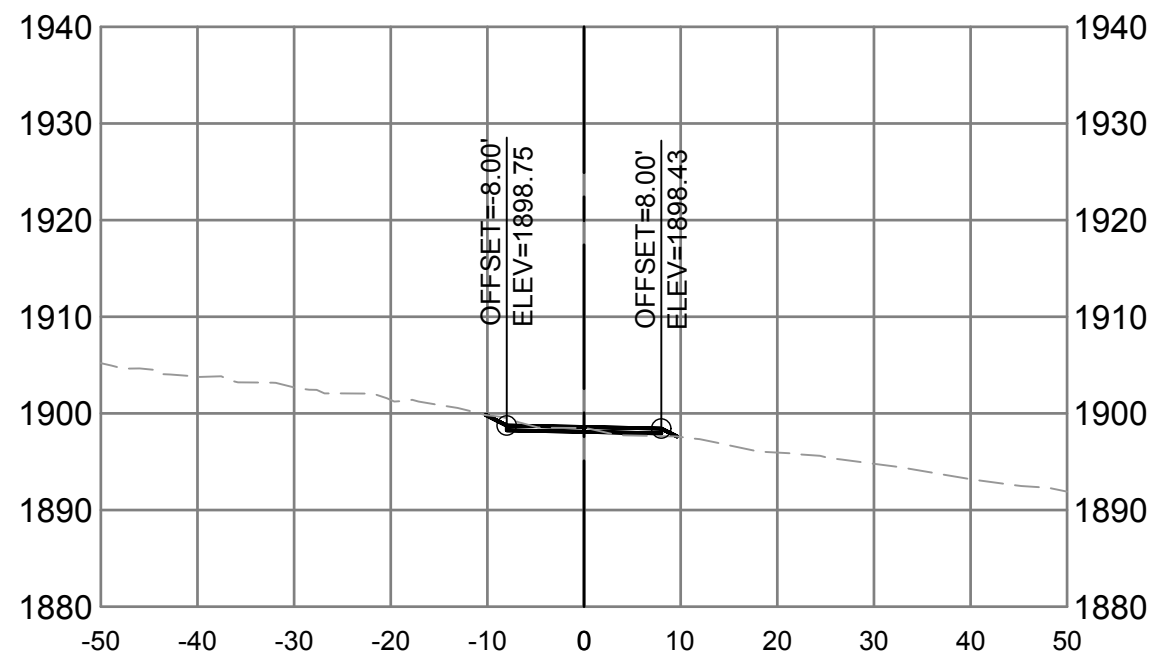
ROAD CE 50 #4, STATION 4+00.0



ROAD CE 50 #8, STATION 8+00.0



ROAD CE 50 #12, STATION 12+00.0



DOM 33 INSTALLATION PLAN EARTHWORK CALCULATIONS			
	CUT (CY)	FILL (CY)	NET (CY)
DOM 33 ROAD IMPROVEMENT	2129	620	1509 (CUT)
INSTALL DOM 33 CRANE PAD	579	1332	753 (FILL)
INSTALLATION TOTALS	2708	1952	756 (CUT)
NOTES			
1. SEE PLAN & PROFILE SHEETS, DOM33-01-DOM33-05 FOR CORRESPONDING CROSS SECTION NUMBER AND ROAD STATION.			
2. CROSS SECTIONS SHOWN ON PLANS ARE FOR PURPOSES OF DESIGN, CONSTRUCTION, AND REVIEW.			
3. THE ABOVE CUT/FILL SUMMARY TABLE IS NOT DEPENDENT ON CROSS SECTION FREQUENCY (I.E. AVERAGE END AREA METHOD). THE CUT/FILL SUMMARY TABLE IS DEVELOPED BASED ON 3D MODELING (COMPOSITE VOLUMES) OF THE EXISTING AND PROPOSED GRADES.			
4. THE FREQUENCY OF CROSS SECTION SAMPLES VARIES BETWEEN 100FT AND 50FT SPACING; FREQUENCY IS INCREASED DEPENDING ON THE AMOUNT OF PROPOSED EARTHWORK AT EACH LOCATION.			
5. EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.			
6. EXCESS MATERIALS SHALL BE STORED IN TEMPORARY STOCKPILE AREAS AS SHOWN ON ROAD PLANS FOR CE50.			
7. SEE DOM33-R1 FOR RESTORATION EARTHWORK CALCULATIONS AND TOTAL CALCULATIONS.			



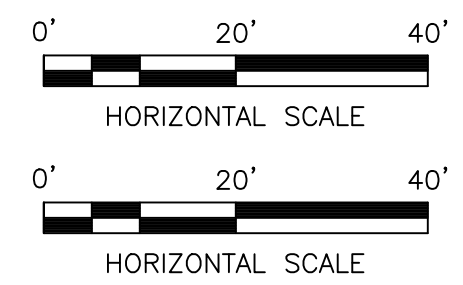
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804.290.7928 (FAX)

TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
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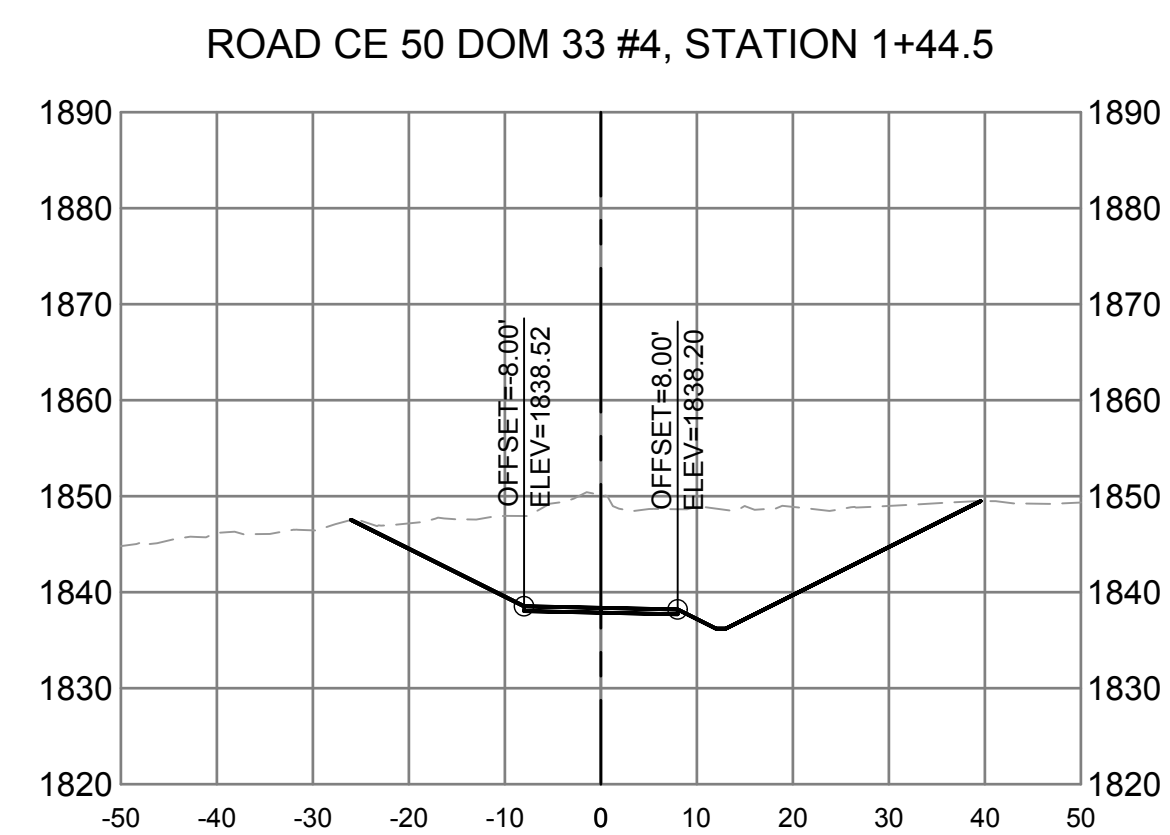
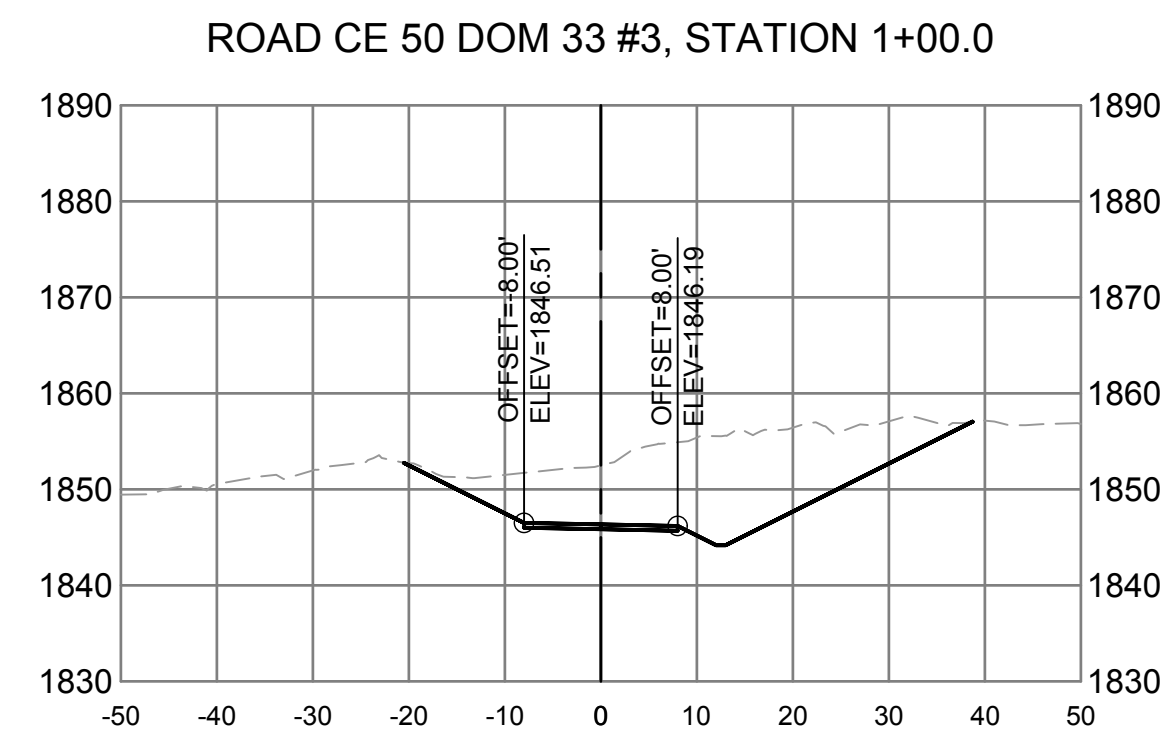
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DOM 33
CROSS SECTIONS

PROJECT NO. 50106442

DOM33-06

SHEET NO.

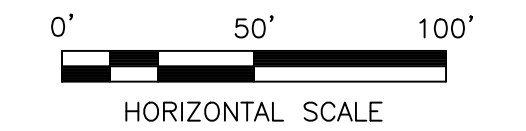


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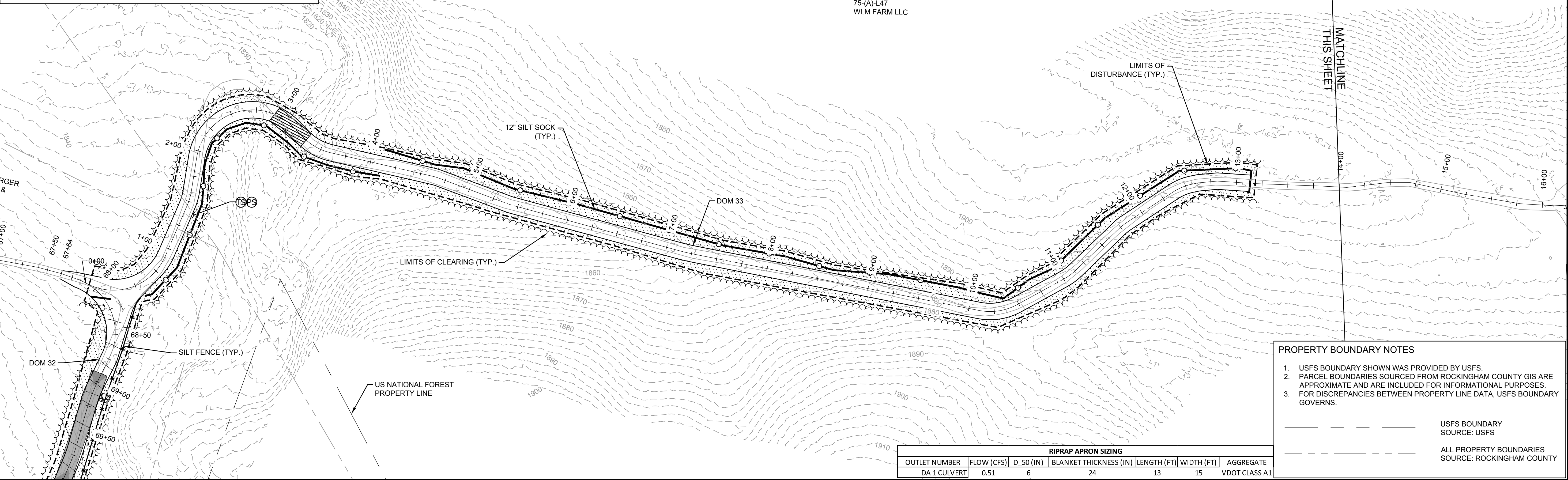
DOM 33
E&SC PLAN

PROJECT NO. 50106442

DOM33-07

SHEET NO.

- NOTES
- SEE SHEET DOM33-10 FOR DRAINAGE CALCULATIONS AND CULVERT PROFILES
 - SEE SHEET DOM32-07 FOR CULVERT RIP RAP APRON SIZING.
 - SEE SHEET DOM32-09 FOR DRAINAGE AREA MAP
 - SEE SHEET C7-05 FOR TYPICAL SECTION FOR ROAD AND DITCH AND C7-06 TYPICAL GWNF CONSTRUCTION DETAILS
 - SEE SHEET 2 THROUGH 6W FOR EROSION AND SEDIMENT CONTROL NARRATIVE, NOTES, AND DETAILS
 - DITCHES SHALL BE LINED WITH RIPRAP IF LONGITUDINAL SLOPES ARE GREATER THAN 8%.



RIPRAP APRON SIZING					
OUTLET NUMBER	FLOW (CFS)	D 50 (IN)	BLANKET THICKNESS (IN)	LENGTH (FT)	WIDTH (FT)
DA 1 CULVERT	0.51	6	24	13	15
					VDOT CLASS A1

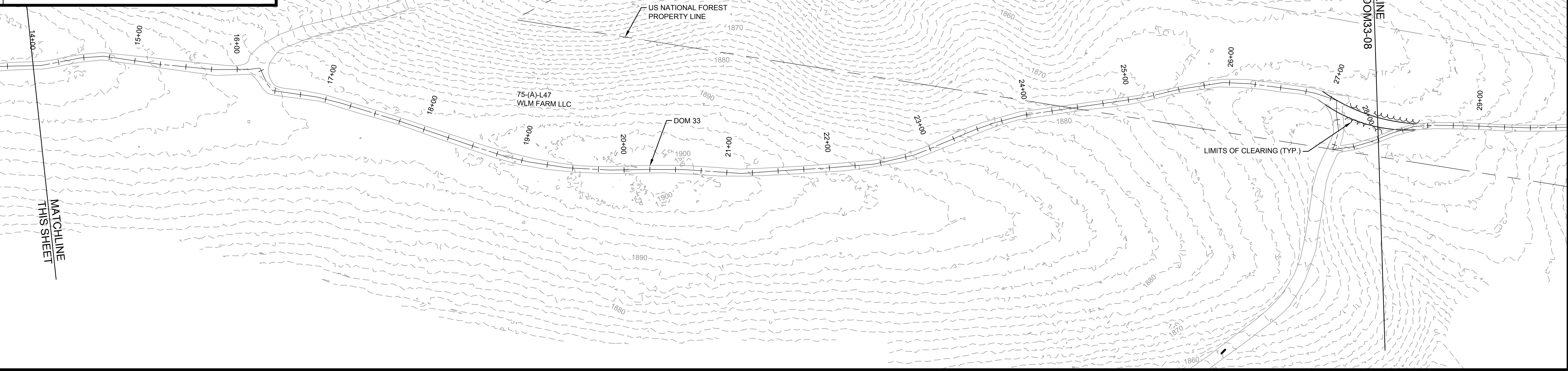
- PROPERTY BOUNDARY NOTES
- USFS BOUNDARY SHOWN WAS PROVIDED BY USFS.
 - PARCEL BOUNDARIES SOURCED FROM ROCKINGHAM COUNTY GIS ARE APPROXIMATE AND ARE INCLUDED FOR INFORMATIONAL PURPOSES.
 - FOR DISCREPANCIES BETWEEN PROPERTY LINE DATA, USFS BOUNDARY GOVERNS.

USFS BOUNDARY
SOURCE: USFS

ALL PROPERTY BOUNDARIES
SOURCE: ROCKINGHAM COUNTY

- E&SC LEGEND
- PROPOSED 12" SILT SOCK
 - PROPOSED SILT FENCE
 - PROPOSED SUPER SILT FENCE
 - PROPOSED LIMITS OF DISTURBANCE
 - PROPOSED RIPRAP APRON
 - PROPOSED LIMITS OF CLEARING

- HATCH LEGEND
- TEMPORARY & PERMANENT SEEDING. SEE DOMINION SPEC TE VEP 8000-13-00



E&SC LEGEND

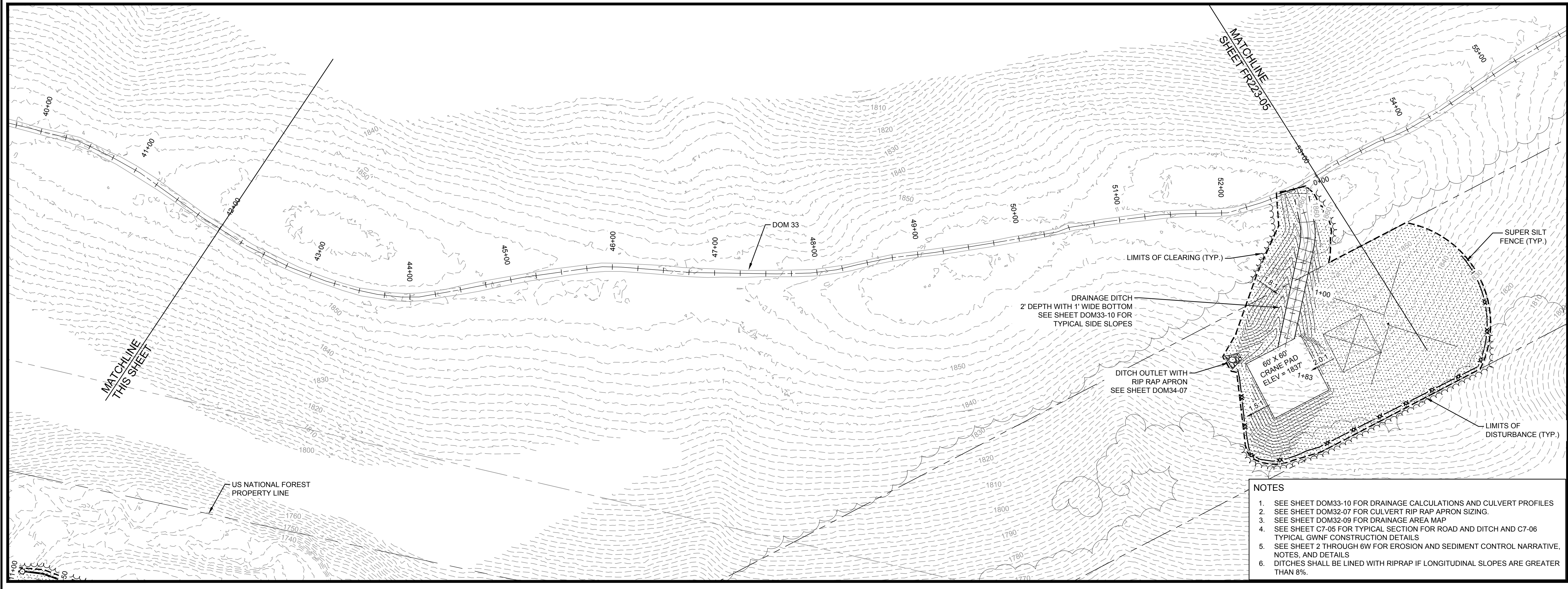
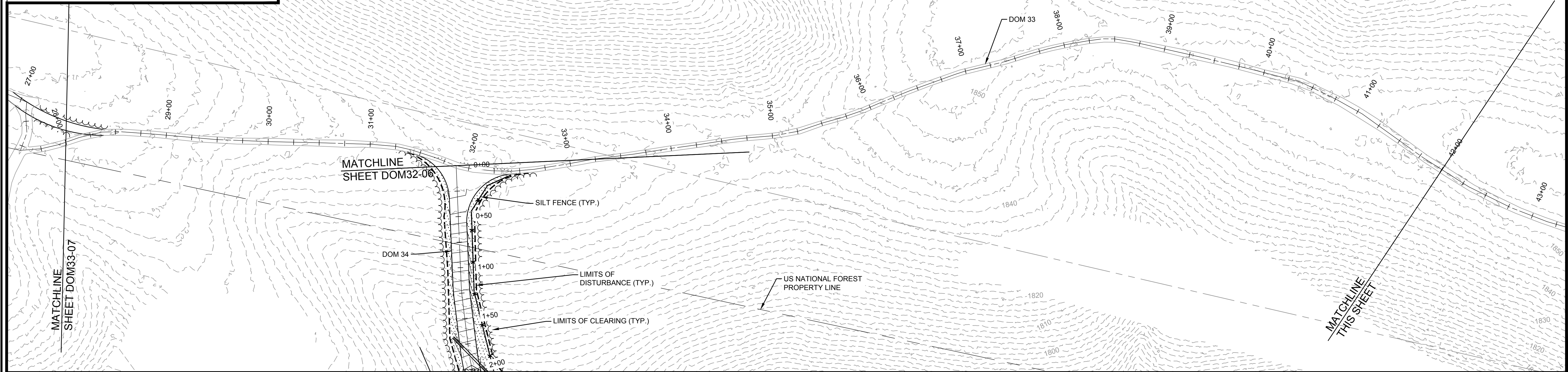
- PROPOSED 12" SILT SOCK
PROPOSED SILT FENCE
PROPOSED SUPER SILT FENCE
PROPOSED LIMITS OF DISTURBANCE
PROPOSED RIPRAP APRON
PROPOSED LIMITS OF CLEARING

HATCH LEGEND

- TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00

PROPERTY BOUNDARY NOTES

1. USFS BOUNDARY SHOWN WAS PROVIDED BY USFS.
2. PARCEL BOUNDARIES SOURCED FROM ROCKINGHAM COUNTY GIS ARE APPROXIMATE AND ARE INCLUDED FOR INFORMATIONAL PURPOSES.
3. FOR DISCREPANCIES BETWEEN PROPERTY LINE DATA, USFS BOUNDARY GOVERNS.
- USFS BOUNDARY
SOURCE: USFS
ALL PROPERTY BOUNDARIES
SOURCE: ROCKINGHAM COUNTY



- NOTES
- SEE SHEET DOM33-10 FOR DRAINAGE CALCULATIONS AND CULVERT PROFILES
 - SEE SHEET DOM32-07 FOR CULVERT RIP RAP APRON SIZING.
 - SEE SHEET DOM32-09 FOR DRAINAGE AREA MAP
 - SEE SHEET C7-05 FOR TYPICAL SECTION FOR ROAD AND DITCH AND C7-06 TYPICAL GWNF CONSTRUCTION DETAILS
 - SEE SHEET 2 THROUGH 6W FOR EROSION AND SEDIMENT CONTROL NARRATIVE, NOTES, AND DETAILS
 - DITCHES SHALL BE LINED WITH RIPRAP IF LONGITUDINAL SLOPES ARE GREATER THAN 8%.



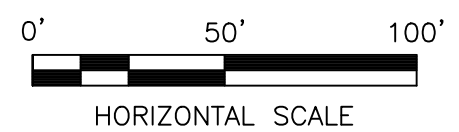
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DOM 33
E&SC PLAN

PROJECT NO. 50106442

DOM33-08

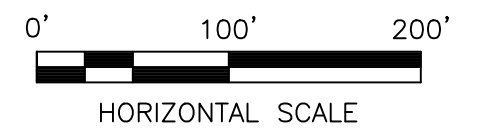
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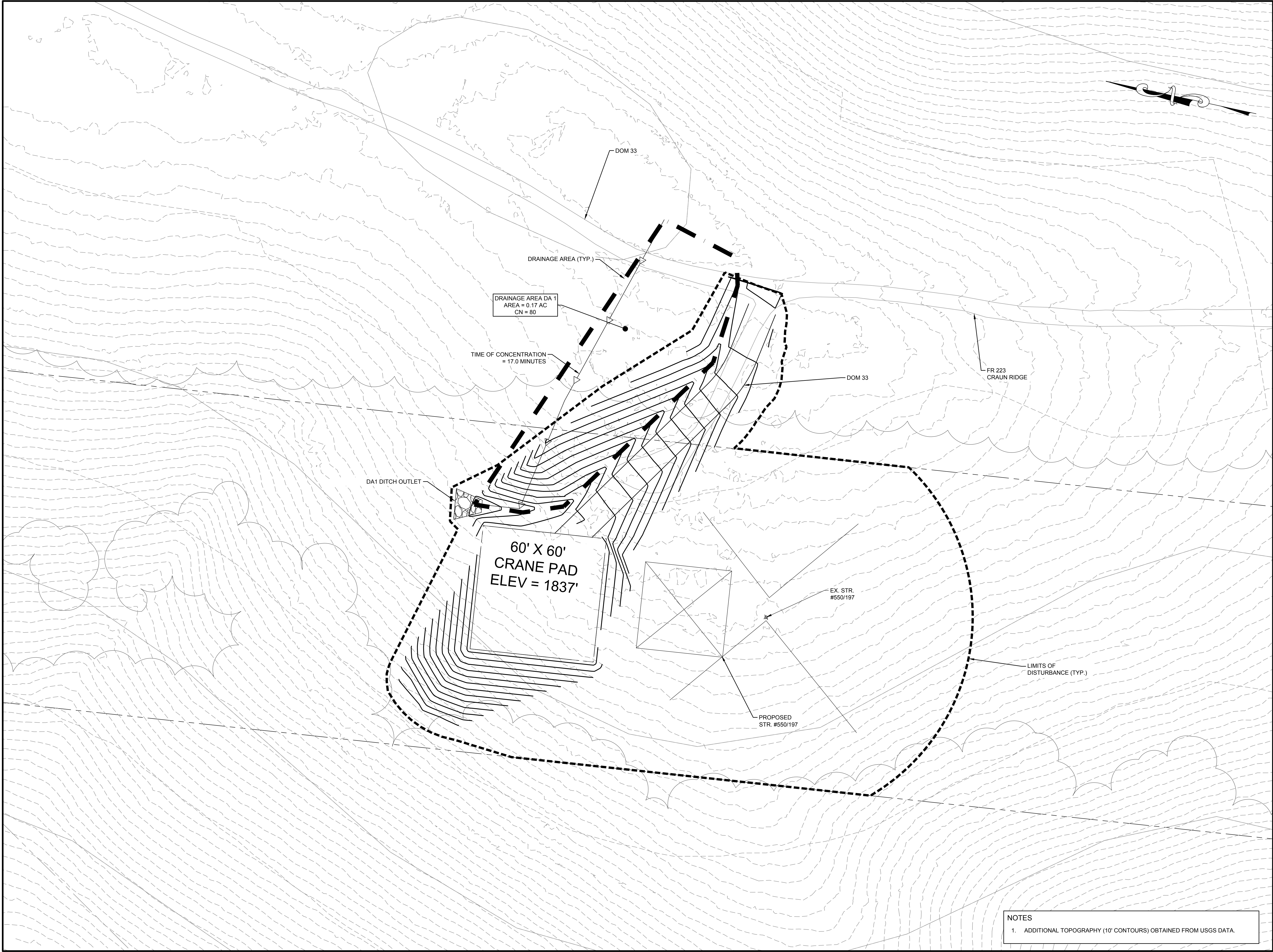
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DOM 33
DRAINAGE AREA

PROJECT NO. 50106442

DOM33-09

SHEET NO.



NOTES
1. ADDITIONAL TOPOGRAPHY (10' CONTOURS) OBTAINED FROM USGS DATA.



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DOM 33
DRAINAGE CALCS

PROJECT NO. 50106442

DOM33-10

SHEET NO.

LAL		TL 550 PHASE 3	
Rockingham ZONE-1 NOAA-B County, Virginia			
Hydrograph Peak/Peak Time Table			
Sub-Area or Reach Identifier	Peak 10-Yr (cfs) (hr)	Flow and Peak Time (hr) by Rainfall Return Period 25-Yr (cfs) (hr)	

SUBAREAS			
DOM 33	0.39	0.51	
	12.23	12.22	
REACHES			
OUTLET	0.39	0.51	

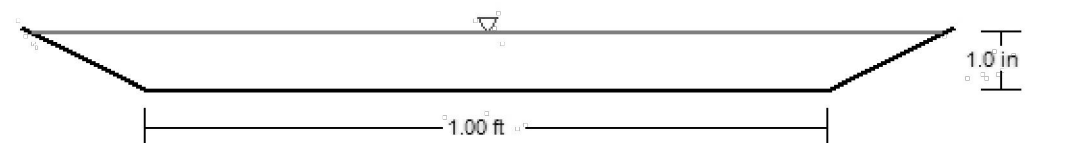
LAL				
TL 550 PHASE 3				
Rockingham ZONE-1 NOAA-B County, Virginia				
Sub-Area Land Use and Curve Number Details				
Sub-Area Identifier	Land Use	Hydrologic Soil Group	Sub-Area Area (ac)	Curve Number
DOM 33	Gravel (w/ right-of-way)	D	.017	91
	Woods - grass combination	(good) D	.154	79
	Total Area / Weighted Curve Number		.17	80
			==	==

LAL							
TL 550 PHASE 3							
Rockingham ZONE-1 NOAA-B County, Virginia							
Sub-Area Time of Concentration Details							
Sub-Area Identifier/	Flow Length (ft)	Slope (ft/ft)	Mannings's n	End Area (sq ft)	Wetted Perimeter (ft)	Velocity (ft/sec)	Travel Time (hr)

DOM 33							
SHEET	100	0.1741	0.800				0.280
SHALLOW	78	0.1741	0.050				0.003
Time of Concentration							.283
							=====

Cross Section for DA1-DITCH

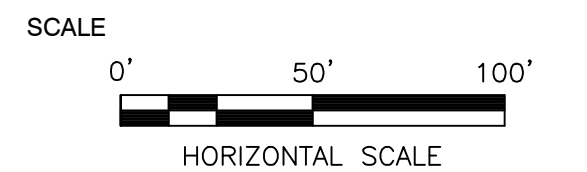
Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Roughness Coefficient	0.018
Channel Slope	0.141 ft/ft
Normal Depth	1.0 in
Left Side Slope	2.000 H:V
Right Side Slope	2.000 H:V
Bottom Width	1.00 ft
Discharge	0.51 cfs


$$\begin{array}{c} \text{W:1} \\ \text{H:1} \end{array} \triangle$$

TRANSMISSION LINE REBUILD
PROJECT TL 550
CONSTRUCTION DOCUMENTS
GEORGE WASHINGTON NATIONAL FOREST
WEST VIRGINIA & VIRGINIA

SEAL

PRELIMINARY
NOT FOR CONSTRUCTION



0	6/01/21	ARB	DRAFT FOR REVIEW
No.	DATE	BY	Description

REVISIONS

DRAWN BY LAL

APPROVED BY

CHECKED BY ARB

DATE 06/01/2021

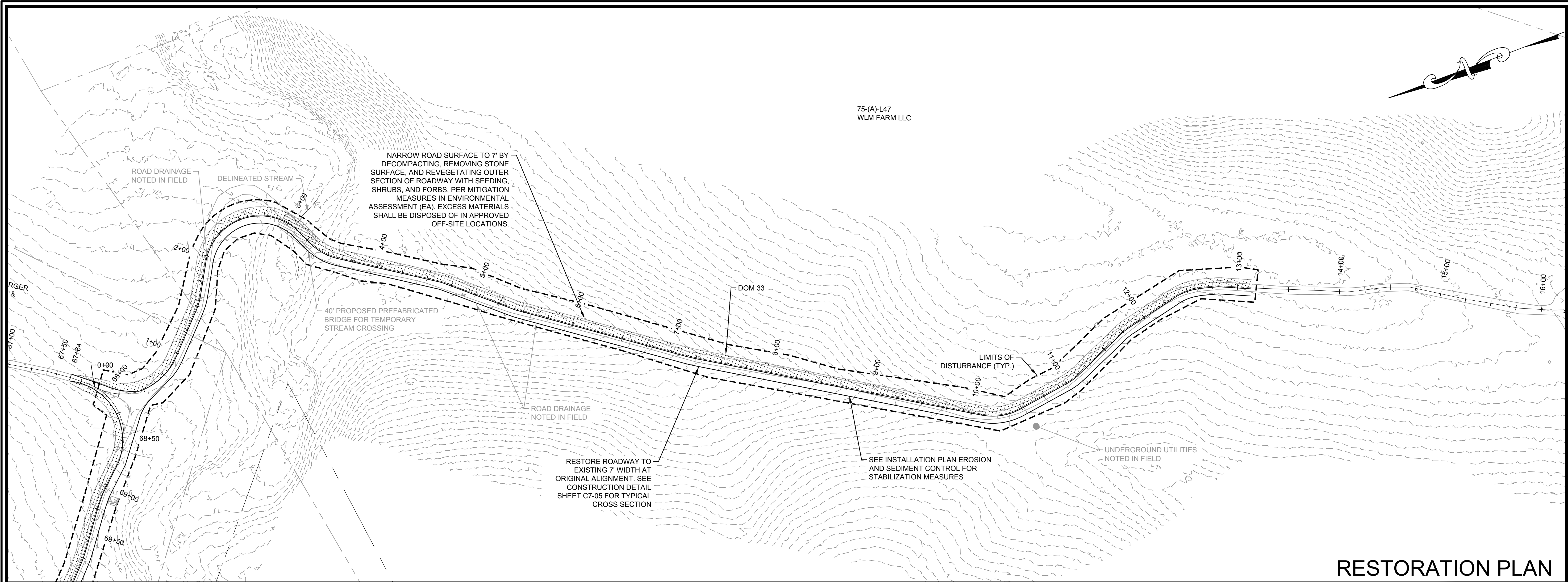
TITLE

DOM 33
RESTORATION
PLAN

PROJECT NO. 50106442

DOM33-R1

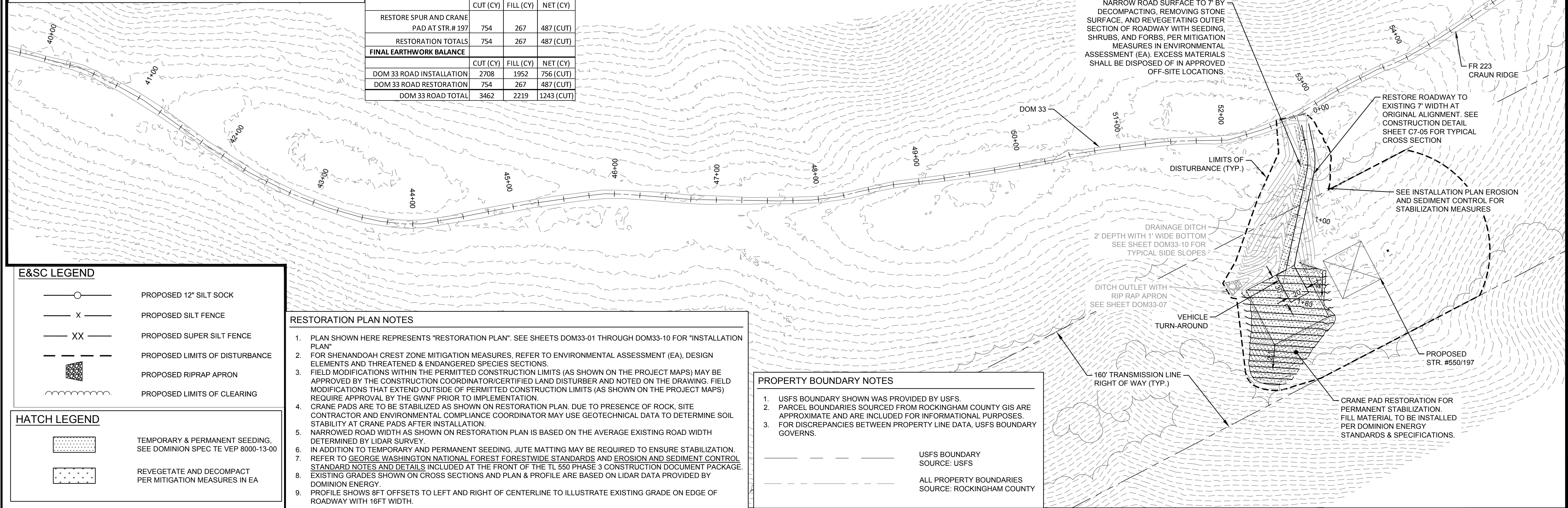
SHEET NO.



RESTORATION PLAN

- EARTHWORK NOTES
- EXCESS MATERIALS SHALL BE STORED IN TEMPORARY STOCKPILE AREAS AS SHOWN ON ROAD PLANS FOR CE50.
 - WHERE ADDITIONAL FILL MATERIAL IS REQUIRED, SUITABLE EXCESS MATERIALS FROM INSTALLATION AND RESTORATION OF OTHER ROADS WITHIN THE GWNF MAY BE USED.
 - OVERALL EARTHWORK BALANCES FOR CE50 WILL BE PROVIDED IN SUMMARY TABLE.

DOM 33 INSTALLATION PLAN EARTHWORK CALCULATIONS			
	CUT (CY)	FILL (CY)	NET (CY)
DOM 33 ROAD IMPROVEMENT	2129	620	1509 (CUT)
INSTALL DOM 33 CRANE PAD	579	1332	753 (FILL)
INSTALLATION TOTALS	2708	1952	756 (CUT)
DOM 33 RESTORATION PLAN EARTHWORK CALCULATIONS			
	CUT (CY)	FILL (CY)	NET (CY)
RESTORE SPUR AND CRANE PAD AT STR.# 197	754	267	487 (CUT)
RESTORATION TOTALS	754	267	487 (CUT)
FINAL EARTHWORK BALANCE			
	CUT (CY)	FILL (CY)	NET (CY)
DOM 33 ROAD INSTALLATION	2708	1952	756 (CUT)
DOM 33 ROAD RESTORATION	754	267	487 (CUT)
DOM 33 ROAD TOTAL	3462	2219	1243 (CUT)



E&SC LEGEND

- PROPOSED 12" SILT SOCK
- PROPOSED SILT FENCE
- PROPOSED SUPER SILT FENCE
- PROPOSED LIMITS OF DISTURBANCE
- PROPOSED RIPRAP APRON
- PROPOSED LIMITS OF CLEARING

HATCH LEGEND

- TEMPORARY & PERMANENT SEEDING, SEE DOMINION SPEC TE VEP 8000-13-00
- REVEGETATE AND DECOMPACT PER MITIGATION MEASURES IN EA

RESTORATION PLAN NOTES

- PLAN SHOWN HERE REPRESENTS "RESTORATION PLAN". SEE SHEETS DOM33-01 THROUGH DOM33-10 FOR "INSTALLATION PLAN"
- FOR SHENANDOAH CREST ZONE MITIGATION MEASURES, REFER TO ENVIRONMENTAL ASSESSMENT (EA), DESIGN ELEMENTS AND THREATENED & ENDANGERED SPECIES SECTIONS.
- FIELD MODIFICATIONS WITHIN THE PERMITTED CONSTRUCTION LIMITS (AS SHOWN ON THE PROJECT MAPS) MAY BE APPROVED BY THE CONSTRUCTION COORDINATOR/CERTIFIED LAND DISTURBER AND NOTED ON THE DRAWING. FIELD MODIFICATIONS THAT EXTEND OUTSIDE OF PERMITTED CONSTRUCTION LIMITS (AS SHOWN ON THE PROJECT MAPS) REQUIRE APPROVAL BY THE GWNF PRIOR TO IMPLEMENTATION.
- CRANE PADS ARE TO BE STABILIZED AS SHOWN ON RESTORATION PLAN. DUE TO PRESENCE OF ROCK, SITE CONTRACTOR AND ENVIRONMENTAL COMPLIANCE COORDINATOR MAY USE GEOTECHNICAL DATA TO DETERMINE SOIL STABILITY AT CRANE PADS AFTER INSTALLATION.
- NARROWED ROAD WIDTH AS SHOWN ON RESTORATION PLAN IS BASED ON THE AVERAGE EXISTING ROAD WIDTH DETERMINED BY LIDAR SURVEY.
- IN ADDITION TO TEMPORARY AND PERMANENT SEEDING, JUTE MATTING MAY BE REQUIRED TO ENSURE STABILIZATION.
- REFER TO GEORGE WASHINGTON NATIONAL FOREST FORESTWIDE STANDARDS AND EROSION AND SEDIMENT CONTROL STANDARD NOTES AND DETAILS INCLUDED AT THE FRONT OF THE TL 550 PHASE 3 CONSTRUCTION DOCUMENT PACKAGE.
- EXISTING GRADES SHOWN ON CROSS SECTIONS AND PLAN & PROFILE ARE BASED ON LIDAR DATA PROVIDED BY DOMINION ENERGY.
- PROFILE SHOWS 8FT OFFSETS TO LEFT AND RIGHT OF CENTERLINE TO ILLUSTRATE EXISTING GRADE ON EDGE OF ROADWAY WITH 16FT WIDTH.

PROPERTY BOUNDARY NOTES

- USFS BOUNDARY SHOWN WAS PROVIDED BY USFS.
- PARCEL BOUNDARIES SOURCED FROM ROCKINGHAM COUNTY GIS ARE APPROXIMATE AND ARE INCLUDED FOR INFORMATIONAL PURPOSES.
- FOR DISCREPANCIES BETWEEN PROPERTY LINE DATA, USFS BOUNDARY GOVERNS.

USFS BOUNDARY
SOURCE: USFS

ALL PROPERTY BOUNDARIES
SOURCE: ROCKINGHAM COUNTY